



Greenery Ops Emissions Reductions **Environmental Management Program**

Background / Purpose: California Air Resources Board regulations require that stationary and off road motive equipment meet strict guidelines for PM and NOx emissions reductions by 2010. The Greenery operates several stationary pieces of equipment including tub grinders and trommel screens. The purpose of this EMP is to meet the regulatory requirements for the Greenery stationary equipment through the purchase of a new tub grinder and the diagnostic analysis and refinement of the tier III compliant PM filter for the Komteck/Farwick (K/F) trommel screen.

Objective: Mitigate fugitive Particulate Matter (PM) emissions in the Greenery stationary equipment.

Related Significant Aspects: Exhaust Emissions, stationary equipment.

Target: Optimize PM filter operation on K/F trommel screen. Reduce PM emissions 20% and NOx emissions by 51% from tub grinder operations.

Target Completion Date(s): July 1, 2008.

Action Plan: Complete diagnostic evaluation of K/F trommel screen and effect necessary changes to meet optimum operational efficiencies. Design and implement new filter cleaning process improvements. Purchase new Tier II rated tub grinder to replace existing wood processing tub grinder.

Responsible Person(s): Dana Armstrong

Resources Required: Tub Grinder Funding approval, filter cleaning station, additional products or services as determined by diagnostic testing.

Environmental Performance Indicator(s): Reduced PM 10 and NOx emissions evaluated by diagnostic testing and California Air Resources Board engine certification.

Comments (including other expected benefits or cost savings): In addition to helping maintain our operating permit this EMP will also aid in reducing the risk of PM 10 exposure and increase efficiencies in the wood grinding operation.

Baseline Data: Observed PM 10 emissions during tub grinder operations. Statistical data on non Tier II engines vs. Tier II emission reductions.

Prepared by: Mark zu Hone, Environmental Management Representative

Reviewed by: Dana Armstrong, Disposal Site Supervisor

Approved by: Kip Sturdevan, Deputy Environmental Services Director, WRAD

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Environmental Management Program

EMP Schedule (Trommel Screen)					
Step	Action Items	Responsibilities	Role	Schedule	Resources Required
1	Coordinate diagnostic test with filter manufacturer	Michael Dunn Dana Armstrong	Lead Support	25 July 07 Complete	N/A
2	Implement filter manufacturer recommendations	Dana Armstrong	Lead	January 08	
3	Design and construct filter cleaning trap	Dana Armstrong Michael Dunn	Lead Support	Complete	
4	Develop and implement filter cleaning SOP	Dana Armstrong Michael Dunn	Lead Support	Complete	

Comments (report performance/milestones):

EMP Schedule (Tub Grinder)					
Step	Action Items	Responsibilities	Role	Schedule	Resources Required
1	Obtain Mayor/Council approval for Tier II tub grinder purchase	Dana Armstrong	Lead	Complete	
2	Develop and advertise RFP for Tier II tub grinder	Dana Armstrong	Lead	Complete	
3	Award bid to purchase tub grinder	Purchasing Dana Armstrong	Lead Support	Oct 07 Complete	
4	Tub Grinder delivery and acceptance	Dana Armstrong Benny Morris	Lead Support	Oct 07	
5	Develop SOP for safe operation and train crews	Dana Armstrong Mark zu Hone	Lead Support	11/1/07	

Comments (report performance/milestones):